



Jan 2600 Page 1 of 2

Receipt

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/884,659	06/19/2001	2631	627	PA1580US	21	28	8

22830  
CARR & FERRELL LLP  
2225 EAST BAYSHORE ROAD  
SUITE 200  
PALO ALTO, CA 94303

CONFIRMATION NO. 4480

UPDATED FILING RECEIPT



\*OC000000007272456\*

Date Mailed: 01/07/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Brian L. Hinman, Los Gatos, CA;  
Andrew L. Norrell, Nevada City, CA;  
James Schley-May, Nevada City, CA;

**Domestic Priority data as claimed by applicant**

THIS APPLN CLAIMS BENEFIT OF 60/212,597 06/19/2000  
AND CLAIMS BENEFIT OF 60/184,392 02/23/2000

**Foreign Applications**

if Required, Foreign Filing License Granted 08/21/2001

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

**\*\* SMALL ENTITY \*\***

**Title**

Differentially-driven loop extender

**Preliminary Class**

ENTERED  
JHS DB



375

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

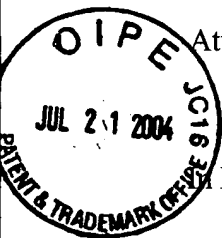
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Atty. Docket No. 006491.P033

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of:

Brian L. Hinman

Application No.: 09/884,659

Filed: June 19, 2001

For: Differentially-Driven Loop Extender

Examiner: Not Yet Assigned

Art Unit: 2631

Mail Stop OIPE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REQUEST FOR CORRECTION OF FILING RECEIPT

Dear Sir:

In the Filing Receipt for the above-referenced patent application filed on June 19, 2001, the Domestic Priority data was submitted incorrectly as follows:

THIS APPLN CLAIMS BENEFIT OF 60/212,597 06/19/2000  
AND CLAIMS BENEFIT OF 60/184,392 02/23/2000

The correct Domestic Priority data is as follows:

THIS APPLN CLAIMS BENEFIT OF 60/212,597 06/19/2000

FIRST CLASS CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on 7-15-04

Date of Deposit

Tina Wainright

Name of Person Mailing Correspondence

Tina Wainright  
Signature

7-15-04  
Date

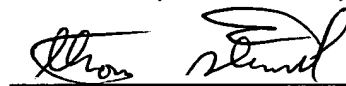
Please have the Filing Receipt changed to reflect the correct Domestic Priority data. Enclosed is a copy of the incorrect Filing Receipt with the change noted thereon and a copy of page one of the Specification, showing the relationship.

Applicant believes no fee is due since the correct information was submitted with the initial filing. However, if a fee is due, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

Dated: 7-15, 2004



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## DIFFERENTIALLY-DRIVEN LOOP EXTENDER

### CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application relates to and claims the priority of commonly assigned U.S. Provisional Patent Application No. 60/212,597, entitled "DSL Repeater," filed on June 19, 2000, the disclosure of which is hereby incorporated by reference. This application is also related to commonly assigned U.S. Provisional Patent Application No. 60/184,392 filed on February 23, 2000 and entitled "Mid-Span Repeater for ADSL," and commonly assigned U.S. Patent Application No. 09/569,470 filed May 12, 2000 and entitled "DSL Repeater," the disclosures of which are hereby incorporated by reference.

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

[0002] The present system and method relate generally to Digital Subscriber Line (DSL) technology, and more particularly to a system and method for improving ADSL (Asymmetric DSL) and VDSL (Very high data rate DSL) system performance over long local loops.

#### 2. Description of the Background Art

[0003] One method of accessing the Internet is by using DSL technology, which has several varieties, including ADSL and VDSL versions. ADSL is one version of DSL technology that expands the useable bandwidth of existing copper telephone lines. ADSL is "asymmetric" in that ADSL reserves more bandwidth in one direction than in